

Investigations Into the Ternary System Aluminum-Iron-Zinc, by Heinz E. Gebhardt, UNCLASSIFIED

CERMET, per, Zeitschrift für Metallkunde, Vol XLIV, No 5, 1953, pp 206-211.

Butcher No 3269

Scientific - Min/Metals

7058

\$7.80

The Effects of Stress Concentrations on the
Rupture Strength of Metallic Materials Subjected
to Creep Loading, by G. Sachs, D. P. Newman,
W. F. Brown

GERMAN, per, Zeitschrift für Metallkunde, Vol XLIV,
No 6, 1953, pp 233-239.

Brutcher Tr 3179

Scientific - Minerals/Metals
CTS/DEX Price \$4.50

9288

A Report on the Refingin [Refining?] of Magnesium,
by Karl Ernst Mann, 7 pp.

GERMAN, per, Zeits^{ch} für Metallkunde, Vol XLIV, 1953,
pp 264-266.

S.L.A. 1046

Scientific - Minerals/metals 33,498

Tin-Bismuth-Antimony System. Thermal and
Microscopic Investigation of the Ternary
Systems, by Rudolph Vogel, 4 pp.

Full translation.

Vol

GERMAN, per, Z. Metallkunde/XLIV, 1953, pp 323-
324.

AEC-Tr-1735

8480

Scientific - Min/Met

CTS/DEX

Melting of Metals Without Crucible Reaction,
by O. Winkler

GERMAN, no par, Z Metallkunde, Vol XLIV, 1953,
pp 333-341.

T.I.L. Ex T 4701

Sci - Min/Metals
Sep 56 CTS

39,309

56 39-3306

Lihl, Franz and Jenitschek, Peter.
DECOMPOSITION OF HEXAGONAL ALUMINUM
BORIDE AlB_2 . [1961] 8p. (11 figs. omitted) 8 refs.
Order from SLA \$1.10 61-20751

Trans. of Zeitschrift für Metallkunde (West Germany)
1953, v. 44[no. 8/9] p. 414-417.

DESCRIPTORS: *Aluminum compounds, *Borides, De-
composition, Aluminum, *Boron, *Alloys, Production,
Microstructure, Radiography.

(Chemistry--Physical, TT, v. 7, no. 3)

61-20751

I. Lihl, F.
II. Jenitschek, P.

Office of Technical Services

Theory of Grain Boundary Structure in Solids,
by K. Lucke.

GERMAN, per, Z. Metallkde., Vol 44, 1953,
pp 418-426.

*NTIS/USDC/NBS TT 71-55064

Available NBS Only

May 71

Phase Reaction in the Fe-Si System, by E. Fitzner.
GERMAN, per, Z Metallkunde, No 44, 1953, pp 462-
472.

*NBS TT 70-57428

Sci-Mat
Aug 70

Influence of Residual Stresses on Detection of
Flaws in Steel Tubing by Electromagnetic Means,
by K. Matthayes.

GERMAN, per, Zeit Metallkunde, Vol XLIV, 1953,
pp 473-474.

Henry Bratcher 4332
\$3.85

Sci - Electronics, Engr
Oct 58

75,720

Contributions to the Metallography of Light
Metals: 7.-Observations on the Dendritic
Crystallization of Pure Aluminium, by H.
Kostron, M. Schippers.

GERMAN, per, Z. Metallkunde, Vol XLIV, No 11,
1953, pp 477-489.

Aluminium Lab Ltd Tr
B-TM-197-56
OT/2394

Sci - Min/met
Jul 57

50,693

SLA 57-1797

Contributions to the Metallography of Light
Metals, by H. Kostron, M. Schipper.

GERMAN, per, Z Metallk, Vol XLIV, No 11, 1953,
pp 489-494.

Aluminium Lab, LTD.

B-TM-180-55 OT/1658

Sci - Minerals/Metals, Chemistry

35,690

Jun 1956

Contribution to the Crystallization of Aluminum-Silicon Alloys, by Gustav Gurtler, 20 pp.

GERMAN, per, Zeitschrift fuer Metallkunde, Vol XLIV, 1953, pp 503-509.

SLA 59-15096

Sci
Dec 59
Vol 2, No 4

103,094

Discontinuous Solidification Processes
in the Continuous Casting of Superpurity
Refined or Commercial-Purity Aluminium,
by D. Altenpohl, S. Hohentwiel,

GERMAN, per, Z Metallk, Vol XLIV, No 11,
Nov 1953, pp 536-550,

Aluminium Lab LTD B-TM-170-55

Sci & Minerals/Metals *SHH 60-1011* 30,894

On the Problem of the Activation of Metal Surfaces,
by Cyrill Schaub, Werner Liedske, 6 pp.

GERMAN, per, Z. Metallkunde, Vol XLIV, 1953,
pp 570-572.

AEC Tr 2259

Scientific - Minerals/Metals
Nov 55 CTS/DEX

28,464

The Mechanism of Oxidation and Corrosion
Processes on Metals and Alloys, by K.
Hauffe.

GERMAN, per, Z. Metallk, Vol XLIV, No 12,
Dec 1953, pp 576-583.

Aluminium Laboratories LTD
B-TN-261-54 OT-1251

EUR - Germany
Sci - Minerals/Metals

29,415

Hot Forging of Metals, by E. Siebel. UNCL

GERMAN, per, Z Metallkunde, Vol XLV, No 1, ¹⁹⁵⁴~~1953~~
pp 1-7. ^

British Iron and Steel Ind
(no number given)

Sci - Min/Met
Sep 59

98,395

Wilsdorf, H.

ELECTRON MICROSCOPE INVESTIGATION OF
METAL SURFACES WITH EVAPORATED SILICON
MONOXIDE REPLICAS. [1962] 13p. (figs. [refs.]
omitted).

Order from SLA \$1.60

63-10036

Trans. of Zeitschrift für Metallkunde (West Germany)
1954, v. 45 [no. 1] p. 11-22.

DESCRIPTORS: Metals, *Surfaces, *Reproduction,
*Electron microscopes, *Monoxides, *Silicon com-
pounds, Evaporation.

The present article describes a method for the pro-
duction of silicon oxide evaporated replicas. These
replicas are easily produced and are characterized
by considerable strength so that extensive fields of
view are obtained and even rough metal surfaces can
be reproduced. Resolution of the replicas was
(Metallurgy, TT, v. 9, no. 10)

(over)

63-10036

H. Wilsdorf, H.

Office of Technical Services

Alloys of the Platinum Metals With Molybdenum,
by E. Raub.

GERMAN, per, Z. Metallkunde, Vol XLV, No 1,
1954, pp 23-30.

TPA3/TIB
T 4349

Sci - Minerals/Metals
CTS 75/Dec 55

29,329

Reactions Between Some Magnesium Alloys and Liquid
Cast Iron, by U. Zwicker.

GERMAN, per, Z Metallkund, Vol XLV, No 1, 1954,
pp 31-35.

Henry Brucher

No 3972
\$5.40

53,126

Sci - Min/Metals
Sep 57

The Composition of Binary Alloy Systems of Ti, by
D. J. McPherson.

GERMAN, per, Z. Metallkde, No 45, 1954, pp 76-82.

*NTIS TT 72-53128

Aug 72

Discussion on the Nature of the Beilby-Layer on the
Basis of Experiences with Bearing (Layer) Metals,
by B. Lann, 5 pp.

GERMAN, per, Z. Metallkunde, Vol XLV, 1954, pp
92, 93.

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JLA Tr 57-2407
(

6-22

Jul 58

68,013

Investigation of the Rolling and Recrystallization Textures of Aluminium: 1. Textures of Cold-Rolled Commercial-Purity Aluminium, by K. Lucke.

per,

GERMAN, /Z. Metallk, Vol XLV, No 2, Feb 1954, pp 86-93.

Aluminium Laboratories LTD.

B-TM-157-55 OT/1299

From - Germany

Sci - Minerals/Metals

28,413

The Ternary System Titanium-Tungsten-Carbon, by
H. Nowotny, 13 pp.

GERMAN, per, Zeit. fur Metallkunde, Vol 45,
No. 3, 1954, pp. 87-101

GOVERNMENT USE ONLY

RSIC-770

EE

Sci/Mat

April 68

342,503

The Investigation of Sinter Processes by the
Emanation Method, by H. Schreiner, G. Glawitsch.

GERMAN, per, Z. Metallk, Vol XLV, No 3, 1954,
pp 102-108.

TPA3/TIB
T 4439

Scientific - Minerals/Metals
CTS 75/Dec 55

29,341

The Diffusion Reactions Taking Place While Pressing
Metal Powders, by H. Schreiner.

GERMAN, per, Z. Metallkunde., Vol 45, 1954, pp 108-111.

*NTIS/USDC/NBS TT 71-55071

Available NBS Only

May 71

The Kinetics of Sintering, by J. Gerlach.
GERMAN, per, Z. Metallkde., Vol 45, 1954, pp 123-127.
*NTIS/USDC/NBS TT 71-55050
Available NBS Only

May 71

Study of the CuSb System, by K. Schubert.
GERMAN, per, Z. Metallkde, Vol 45, 1954, pp 366-370.
*NTIS/USDC/NBS TT 71-55072
Available NBS only

May 71

Graphical Representation of the Shear Stress Ratios
in Face Centre Cubic Crystals, by J. Diehl,
GERMAN, per. Zeits. fur Metallkunde, Vol 45, No 3,
1954, pp 489-492.
NLL Ref: 3774.5 (1910)

Sci/Physics
May 70

Recent Advances in Ultrasonic Nondestructive
Testing, by J. Krautkramer.

GERMAN, per, Zeitschrift für Metallkunde,
Vol XLV, No 4, 1974, pp 154-157.

Brutcher Tr
No 3357

Scientific - Min/Metals

Jan 55 CTS/DEX

20,890

Methods of Ultrasound Testing in the Metal-
Working Industry, by R. Pohlmann, 12 pp.

GERMAN, per, Z. Metallkunde, Vol XLV, No.
4, 1954, pp 161-165.

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/SLA Tr 57-2004

Sci

Jul 58

68,014

A Method of Quantitative Nondestructive
Testing Employing a Slip-Over Coil. Part A.
Communication III of "Theoretical and Experi-
mental Principles of Nondestructive Testing
by the Eddy-Current Method", by F. Forster,
K. Stambke.

German

~~RESEARCH~~, per, Zeitschrift Metallkunde, Vol XLV,
No 4, 1954, pp 166-171.

AEC ORNL L 1296

Brutcher Tr

No 3398

\$ 9.20

Scientific - Minerals/Metals

CTS/DMX

A Method of Quantitative Nondestructive Testing
Employing a Slip-Over Coil. Part B of Communication
III "Theoretical and Experimental Principles of
Nondestructive Testing by the Eddy-Current Method",
by F. Forster, K. Stambke.

GERMAN, per, Zeitschrift Metallkunde, Vol XLV, No 4,
1954, pp 171-179.

AEC OENL 11296
Brutcher Tr No 3399

Scientific - Min/Metals

Dec 54 CTS/DEX 111 712

Practical Eddy-Current Instruments With
Encircling Test Coil for Quantitative Nondestructive
Testing, by F. Förster.

GERMAN, per, Z Metallkunde, Vol XLV, 1954, No 4,
pp 180-187.

Henry Britcher
Tr 3918
\$14.80

Sci - Min/Metals; Eng
Aug 57

50,731

Comprehensive Check Detection in Metals by
the Slip-Over Coil, by P. Forster, H.
Freitmann

1958, in, Zeitschrift für Metallkunde, Vol
127, No 4, 1958, pp 188-193.

Frutcher Tr 3329

Scientific - Minerals/Metals
Jul CTS/DEK Price \$ 7.85

15,963

Nondestructive Flaw Testing of Tungsten Rods, by
A. Keil, ~~XXXXXXXXXXXX~~ Carl-Ludwig Meyer, 10

GERMAN, ptg Z Metallkunde, Vol XXXIV, No 4, 1954,
pp 194-6.
196.

1132

S.L.A. Tr 1975/1956

Sci - Minerals/Metals
Oct 56 CFS

40,046

Theoretical Principles of Contactless Determination
of Thickness and Conductance of Metallic Coatings,
Folts, and Sheet, by F. Forster, UNCLASSIFIED

GERMAN, per Zeitschrift fur Metallkunde, Vol XLV,
No 4, 1954, pp 197-199.

AEC ORNL 1298
Pg 11076766
Brutcher No 292

Scientific - Min/Metals

\$3.75

15,470

Magneto-Inductive Method of Nondestructive
Testing, With Consideration of the Fundamental
Frequency Only. Communication I of "Theoretical
and Experimental Principles of Electromagnetic
Sorting of Semifinished Steel and of Steel Parts.",
by F. Forster.

GERMAN, per, Z. fuer Metallkunde, Vol XLV, No 4,
1954, pp 206-211.

Brutcher Tr No 3406
\$4.60

Scientific - Minerals/Metals
Electronics

21,082
CTB 65/Feb 55

Magneto-Inductive Flaw Detection in Steel.
Communication VII of "Theoretical and Experimental Principles of Nondestructive Testing by the Eddy-Current Method.", by F. Forster.

GERMAN, per, Z. fuer Metallkunde, Vol XLV,
No 4, 1954, pp 221-226.

Brutcher Tr No 3401
\$5.90

Scientific - Minerals/Metals CTS 65/Feb 55

21,081

Industrial Experience With Eddy-Current Flaw
Detection in Semifinished Steel, by K. Sprung-
man.

GERMAN, per, Zeit Metallkunde, Vol XIV, No 4, 1954,
pp 227-230.

Henry Bratcher 4347
\$7.65

Sci - Eng, Min/Met
Oct 58

75,721

The Theoretical And Experimental Basis for the
Electromagnetic Sorting of Steel Parts, IV.
The Residual Field Method, by F. Forster, 9 pp.

GERMAN, per, Zeit Metallkunde, Vol XLV, 1954,
pp 233-238.

AEC Tr 2425

Sci - Minerals/Metals, Chemistry, Physics,

Apr 56

33,346

An Example of the Introduction of Electromagnetic
Sorting Into the Manufacture of Diesel Injection
Pumps and Ejectors, by Richard Richard Hains

GERMAN, per, Zeit Metallkunde, Vol XLV, 1954,
pp 238-242.

54. A. 733
AEC Tr 2438

Scientific - Engineering; Min/Metals
Apr 56 CTS/dax

54. A. 875/1006
33,963

The Rapid Non-Destructive Determination of
Sheet Anisotropy With the Residual Point
Pole Method, by F. Forster, Gustav Zitzelmann

@ GERMAN, per, Zeit Metallkunde, Vol XLV,
1954, pp 245-249.

AEC Tr 2437

Scientific - Min/Metals
Apr 56 CTS/dex

33,966

The Use of the Geiger Counter for Determining
Texture, by W. Mazik Bunk. UNCL

GERMAN, per, Z Metallkunde, Vol XLV, No 5, May
1954, pp 269-275.

British Iron and Steel Ind
(no number given)

Sci - Min/Mat
Sep 59

98,125

Concerning a Cold Electronic Emission of
Metallic Surfaces, by K. Lintner, E. Schmid,
33 pp.

GERMAN, per, Z Metallkunde, Vol XLV, No 5, May
1954, pp 276-285.

SLA 57-1386

May 58

63,826

Change in Properties During the Hardening of a
Copper Chromium Alloy, by W. Koster, W. Knorr. 11 pp.

GERMAN, per, Z fuer Metallkunde, Vol XLV, No 6,
1954, pp 350-356.

Sci - Min/Met

Aug 57

TIL T.4800
SLA 63-16543
51,365

On the Recovery of the Internal Friction of Brass
Immediately After Deformation, by W. Koster, E.
Stolte.

GERMAN, per, Z. Metallkunde, Vol XLV, 1954, pp
356-365.

ASLIB-GB33

Sci

Aug 59

95, 704

63-18061

I. Anderko, K.
II. Schubert, K.

Anderko, Kurt and Schubert, Konrad.
X-RAY PHOTOGRAPHIC, DILATOMETRIC AND
MICROSCOPIC STUDIES OF THE PHASES Cu_2Te ,
 Cu_4Te_3 , AND CuTe . [1963] 13p. (figs. tables omitted)
17 refs

Order from SLA \$1.60

63-18061

Trans. of Zeitschrift für Metallkunde (West Germany)
1954, v. 45, no. 6, p. 371-378.

DESCRIPTORS: *Metallic crystals, *Copper compounds,
*Tellurides, *Crystal lattices, *Phase studies, X-ray
diffraction analysis, Thermal expansion, Micro-
structure.

In the copper-tellurium system, the transformation of
 Cu_2Te as a function of temperature was measured by
dilatometer. In one sample with 34.5 atomic % Te,
effects were shown at 180, 305, 345 and about 4650.
(Physics--Solid State, 'TT', v. 10, no. 12) (over)

Office of Technical Services

A Contribution on the Explanation of the Diffusion
Process in the Copper-Nickel System, by W. Seith
R. Ludwig.

GERMAN, per, Z. Metallkunde, Vol XLV, No 6, 1954,
pp 401-407.

AERE HARWELL

Tr 468 OT/1289

EEur - Germany
Sci - Minerals/Metals

29,397

The Dependence on Orientation of the Plastic
Deformation With Low Elongations of Aluminium
Monocrystals, by G. Masing, H. Weik.

GERMAN, per, Z. Metallk, Vol XLV, No 7, Jul 1954,
pp 417-428.

TPA3/TIB
T 4435

29,340

Scientific - Minerals/Metals
CTS 75/Dec 55

A Simple and Rapid Method for the Determination of
Lattice Constants to Within ± 0.00005 Å by Means of a
Counting Tube Goniometer, by Fritz Ebert, 8 pp.

GERMAN, per, Z fuer Metallkunde, Vol XLV, 1954, ⁹⁸436-439.

AEC Tr 3644

Sci - Min/Mot

Oct 59

98,894

A Simple and Rapid Method for the Determination of
Lattice Constants at ± 0.00005 KX by Means of a
Goniometer with Counter, by F. Ebert, 16 pp.

GERMAN, per, Z Metallk, Vol XLV, 1954, pp 436-439.

ABC CEA Tr A194

Reverse Trans. German to French
Feb 59

Magnetically Directed Structures in Permanent
Magnets, by K. J. Kronenberg, 29 pp.

GERMAN, per, Z. Metallkunde, Vol XLV, July
1954, pp 440-447. *b*

SLA 57-2403

Sci

Aug 58

69, 852

The Evolution and Potentialities of the High
Temperature Metallurgical Microscope, by Gerhard
Reinacher, 24 pp.

GERMAN, per, Zeit fuer Metallkunde, Vol XLV, No 7,
1954, pp 453-458.

SLA 59-15048

Sci - Minerals/Metals

Sep 59

Vol II, No 2

98,660

Lead as an Aid in the Powder Metallurgy Production
of Tungsten Tubes, by Wilhelm Hofmann, Wolfgang
Schoel, 6 pp.

GERMAN, per, Z. Metallkunde, Vol XLV, No 8,
1954, pp 512-513.

S.L.A. Tr 1244

Sci - Min/Metals
Jan 57 CTS

42,613

Changes in the^c Dimensions of Diffusion
Samples, by W. Seith, R. Ludwig.

GERMAN, per, Z. Metallkunde, Vol XLV,
No 9, 1954, pp 550-554.

A.E.R.E. Harwell
Tr 495 OT/1207

29,394

EEur - Germany
Sci - Minerals/Metals, Physics

Rolling and Recrystallization Textures of
Aluminum, by W. Bunk, K. Lucke, G. Masing.

GERMAN, per, Z. Metallkunde, Vol XLV, No 10,
Oct 1954, pp 584-593.

Aluminium Lab, Ltd. Tr B-TM-164-55
OT/1482

Sci - Min/metals
May 57 CTS/dex

83,557

X-Ray Photograph Experiments With Regard to
Age-Hardening of an Aluminium-Copper-Alloy
Using Small-Angle Oscillating Crystal
Methods, by V. Gerold.

GERMAN, per, Z. Metallk, Vol XLV, No 10 ,
1954, pp 593-599.

Fulmer Res Inst, Ltd.
Tr 62 OT/1386

Sci - Minerals/Metals

30,085-

Investigations of the Effect of Load on the Vickers
Microhardness. Part I., By Buckle, Helmut.

GERMAN, par, Z. Metallkunde, Vol XLV, No 11, 1954,
pp 623-632.

Assoc Tech Sv

37050

33,053

Sci - Engineering, Electricity

(#14.35)

Beer, G. and Thomas, H.
CHARACTERISTICS AND STRUCTURE OF IRON-
COBALT ALLOYS CONTAINING 50% CO AND
SMALL ADDITIONS OF VANADIUM. [1962] 7p.
(refs. figs. omitted). 2 refs.
Order from SLA \$1.10

62-16922

Trans. of Zeit[schrift] f[ür] Metallkunde (West
Germany) 1954 (v. 45, no. 11) p. 651-655.

DESCRIPTORS: *Iron alloys, *Cobalt alloys, *Vana-
dium alloys, Transformations, Hysteresis, Crystal
structure, X-ray diffraction analysis.

In the iron-cobalt-vanadium system, the phase-bound-
aries in the concentration-range of 50% Co and 0 to
4% V have been determined by means of measure-
ments of the electrical resistance and thermal ex-
pansion, by X-ray studies and supplementary photo-
(Metallurgy, TT, v. 8, no. 9)

(over)

62-16922

I. Beer, G.
II. Thomas, H.

62-16923

Office of Technical Services

Industrial Experience with the Magnatest Q-
Instrument, by H. Beuse,
GERMAN, per. Z. Metallk, Vol 45, No 12,
1954, pp 677-686.
BISI 9713

Mar 72

Thermal and Mechanical Service Conditions of Hot
Extrusion Tools, by K. Lusa

GERMAN, per, Z. Metallkunde, Vol XLVI, No 1, 1955,
pp 1-6.

Brutcher Tr 3748

\$6.80

Sci - Min/Metals
Sep 56 CTS

38,730

Studies on the Regular Law of Mass Action, by
Erich Scheil, 20 pp.

GERMAN, per, B Z fuer Metallkunde, Vol XLVI,
1955, pp 77-83.

AEC-tr-5263

Sci - M/m

Jan 63

list 74

218,838

Age-Hardening of Aluminium Magnesium Alloys,
by O. Dahl, H. Detert.
K.

GERMAN, per, Zeit fuer Metallkunde, Vol
XLVI, No 2, 1955, pp 94-99.

TPA3/TIB T.4594

JAPANESE, per, J. Electrochem Soc Japan,
Vol XXII, 1954, pp 662-667.

TPA3/TIB T.4595

Sci - Minerals/Metals 31.359

The Rate of Nucleation and Growth in the
Recrystallization of Pure Aluminum, by Frank
Bassner, Kurt Lucke, 19 p.

GERMAN, per, Zeit fur Metallk, 1955, Vol XLVI,
No 2, pp 110-118.

SLA 59-20925

Sci
Mar 60
Vol 3, No 1

111,016

The Standardization of Extrusion Press Tools, by
E. Arenz. UNCL.

GERMAN, per, Z Metallkunde, Vol XLVI, No 3, Mar 1955,
pp 172-179.

British Iron and Steel Ind
(no number given)

Sci - Engr
Sep 59

98, 174

Contribution to the Problem of Earing of Aluminium
Plate, by R. Funk.

GERMAN, per, Z. Metallkunde, Vol XLVI, No 3, Mar
1955, p 180.

ASLIB-GB96

Sci

Aug 59

95, 7/3

Electron Microscope Investigation of Metal
Oxidation, by Gerhard Pfefferkorn

GERMAN, no per, Z. fuer Metallkunde, Vol XLVI,
No 3, 1955, pp 204-207.

Navy Tr 1432/NRL 588

Sci - Min/Metals
Jan 57 CTS

42, 285-

Alloys of Chromium With Platinum, Iridium,
Rhodium, and ~~Ruthenium~~ Ruthenium, by E. Raub,
W. Mahler

GERMAN, per, Z. Metallkunde, Vol XLVI, No 3,
1955, pp 210-215.

Butcher No 3621

\$9.90

42,894

Sci - Min/Metals
Jan 57 CTS

The Effect of Various Etching Agents on Germanium.
I. Chemical Effect of Some Agents on Germanium,
16 pp.

GERMAN, per, Z Metallkunde, Vol XLVI, No 3, 1955,
pp 225-229.

SLA 57-1360

May 58

63,835

The Effect of Various Etching Agents on Germanium,
II. Physical Analysis, by G. Zielasek, 18 pp.

GERMAN, per, 2 Metallkunde, Vol XLVI, No 3, Mar 1955,
pp 229-233.

SLA 57-~~1234~~ 1356

May 58

63,840

The Effect of Various Etching Agents on Germanium,
by G. Zielasek, 18 pp.

GERMAN, per, ² Metallkunde, Vol XLVI, No 3, Mar 1955,
pp 229-233.

SLA Tr # 57-590

Sci - Minerals/Metals
Sep 57

53,991

The Manufacture of Extrusion Press Tools
and the Selection of Steels Therefor, by K. Iner.
UNCL

CHITAH, par, Metallurgie, Vol XLVI, Apr 1955,
pp 237-242.

British Iron and Steel Inc
(no number given)

but - Sec
Sep 59

98, 212

High Vacuum Furnaces, by W. Scheibo

GERMAN, no per, Z Metallkunde, Vol XLVI, No 4,
1955, pp 242-253.

T.I.L. T 4700

Sci - Min/Metals
Sep 56 CTS

39,312

The Electrical Resistance and Plastic Deformation
of Metals, by ~~Samuel~~ Hendrik Gerard Van ^{Beuren}
24 pp. (BUREN)

GERMAN, per, Zeitschrift fur Metallkunde, Vol XLVI,
No 4, 1955, pp 272-282.

A.E.R.E. Harwell Lib Tr 678

Sci - Min/metals

44, 042

SLA-57-1382

About the System GaSb, GaAs, and AlAs, by W. Koster.
GERMAN, per, Z. Metallkunde, Vol 46, 1955, pp 291-293.
*NTIS/USDC/NBS TT 71-55069
Available NBS Only

May 71

Structure of the Gallium-Antimony, Gallium-Arsenic
and Aluminium-Arsenic Systems, by W. Koester,
B. Thoma, 5 pp.

GERMAN, per, Zeit fuer Metallkunde, Vol XLVI,
1955, pp 291-293.

~~A.S.S.I.L. Fr No 942~~

CIA/Z - 251

Sci - Min/metals; chemistry
Mar 57 CTS/dex

44,627

Structure of the Ternary Systems of Metals in
the Third and Fifth ~~Six~~ Groups of the Periodic
System, by W. Koester, B. Thoma, 5 pp.

GERMAN, per, Zeit fuer Metallkunde, Vol
XLVI, 1955, pp 293-297.

~~A.C. Schuler, Tr. No. 875~~

Sci - Min/metals; chemistry
Mar 57 CTB/dex

CIA/Z-258

44, 625

A Practical Apparatus for the Accurate and Rapid
Measurement of Coercive Force and Its Depend-
ence on Temperature, by Friedrich Forster,
10 pp

GERMAN, per, Zeit fuer Metallkunde, Vol
XLVI, 1955, pp 297-302.

CIA/FDD/Z-212

S.1 - Minerals/Metals, Chemistry

32,180

The Magnetometer Apparatus. 11. Possibilities
for Application of the Magnetometer Apparatus and
Results of Measurements Made, by Franz Pavlek,
Karl Reichel, 15 pp.

GERMAN, per, Zeit fuer Metallk, Vol XLVI, 1955,
pp 308-310.

CIA/FDD/Z-232

Sci - Engineering

34,535

May 1956

Hydrogen Porosity in Metals With Special
Consideration of Aluminum and Its Alloys, by
C. E. Ransley, D. E. J. Talbot, 33 pp.

GERMAN, per, Z. Metallkunde, Vol XLVI, No 5, 1955,
pp 328-337. 5097842

AEC Tr-4948

Sci - Min/Metals
Apr 62

189,924

A Method for the Measurement of Direct Fields and
Direct Field Differences and Its Application in
Metallurgical Research Work and in Practice, by F.
Forster. UNCL

GERMAN, per, Z Metall, Vol XLVI, No 5, 1955,
pp 358-370.

British Iron and Steel Ind
(no number given)

Sol - Engr; Min/Met
Sep 59

98,097

Economics of Various Types of Drive of Hydraulic
Presses, by W. Dohrn. UNCL

GERMAN, per, Z Metallkunde, Vol XLVI, No 6,
pp 405-414.

British Iron and Steel Ind
(number given)

Sci - Engr
Sep 59

98,070

The Alloys of Indium; With Some Critical Remarks
on the Book, "Indium" by M. T. Ludwick, by
Siegfried Valentiner, 16 pp.

GERMAN, per, Z. Metallkunde, Vol XLVI, ~~1954~~, 1955,
pp 442-449.

AEC Tr 2692

Sci - Min/Metals
Jan 57 CTS

42,195-

Contribution to the Grain Refinement of Aluminum,
by W. Thury, 5 pp.

GERMAN, per, Z Metallkunde, Vol XLVI, No 7,
Jul 1955, pp 488-490.

Tx
SLA 2295
h

Sci - Minerals/Metals
Oct 57

54,034

Comments on the Dependence of Vickers
Hardness on Load, by A. Braum.
GERMAN, per, Zeit fur Metallkunde, Vol
46, No 7, 1955, pp 499-503.
NTC 69-10901-20K

Sci-Phys
May 69

382,720

On the Measurement of Diffusion of Sulfur in
Ni, by I. Pfeiffer.

GERMAN, per, Z. Metallkunde, No 46, 1955, pp 516-
520.

*NBS TT 70-57414

Sci-Mat

Aug 70

Investigations of the Structures of Continuously
Cast Commercial Purity and Superpurity Aluminum
Ingots, by D. Altenpohl, 40 pp.

GERMAN, per, Z. fuer Metallkunde, Vol XLVI,
No 8, 1955, pp 535-544.

S.L.A. Tr 695/1956

Sci - Min/Metals
Oct 56 CTS

39,399

Difficulties Resulting From High Alloying
Contents in Aluminium Casting Alloys, by
H. Kessler, H. L. Winterstein,

GERMAN, per, Zeit fur Metall. Vol XLVI, No 8, Aug
1955, pp 545-546.

56, A. 740/1956
Aluminium Laboratories, Ltd. Tr B-TM-186-55

Sci - Min/metals

39,696

Investigation of Stress Corrosion of Alpha-
Brass in Ammonia Vapour. I. Statistical
Investigations Into the Effect of the Structure
of the Material on the Life of Test Rings. II.
The Kinetics of Crack Formation, by Franz Aepli,
24 pp.

GERMAN, per, Z fuer Metallkunde, Vol XLVI, No 8,
1955, pp 547-551. 9073931

ACSIL Tr 1312

145,035

Sci - Chem
Feb 61

Concerning the Solubility of Oxygen in Tantalum
and the Related Property Changes, by Erich
Gebhardt, Hans Preisendanz, 30 pp.

GERMAN, per, Z. Metallk, Vol XLVI, 1955,
pp 560-568.

AEC tr-3873

Sci
Jar 60

105,831

Irreversible Changes in Length of Zinc Under
Thermal Stress, by K. Claus, K. Lohberg, 16 pp.

GERMAN, per, Z. Metallkunde, Vol XLVI, 1955, pp
582-588.

SLA 57-3557

Sci

Jul 59

92, 715

Method for the Determination of Poisson's μ
Ratio by Direct Measurement of Transverse
Contraction and Longitudinal Extension, by
K. Claus, 11 pp.

GERMAN, per, Zeit fuer Metallkunde, Vol XLVI,
No 8, Aug 1955, pp 589-592. CIA D 487964

OIN Tr 12738

Scientific - Min/Metals
Jun 56 CTS/dex

35,424

Microradiographic Investigations on Free-
Cutting Steels, by E. Neff. URCL

GERMAN, per, Z Metallkunde, Sep 1955, pp 614-615.

British Iron and Steel Ind
(no number given)

Sci - Phys
Sep 59

98, 311

Age-Hardening of Aluminum-Silver Alloys. IX.
X-ray Investigations on Strain Hardening, by
Volkmar Gerold. 28 pp.

GERMAN, per, Z. Metallk., Vol 46, 1955,
pp 623-631.

AEC ORNL-tr-635

Sci/Materials
Nov 66

314,314

On the Stability of the Guinier-Preston Zones
in Aluminium-Copper Alloys, by H. Franz, R.
Kroner.

GERMAN, per, 2 Metallkunde, Vol XLVI, No 9,
1955, pp 639-646.

ASLIB GB 33
Fulmer Res Inst Ltd, Tr 85
OT/2470

Sci - Min/mt
Nov 57

55,357

A Theory of Regular Proximate Order, by E. Scheil,
F. Wegner, 36 pp.

GERMAN, per, Z Metallkunde, Vol XLVI, No 9, 1955,
pp 658-668.

SLA Tr 57-1280

Sci - Nuclear Physics
Jan 58

58, 202

Frohnmeyer, G., Richter, H., and Schmelzer, G.
INTERFERENCE DIAGRAMS OF SOLID AMORPHOUS
AND LIQUID SELENIUM. 5p.
Order from ATS \$6.50 ATS-66R76G

Trans. of Zeitschrift für Metallkunde (West Ger-
many) 1965, v. 46, no. 9, p. 689-692.

TT-61-22486

- I. Frohmeyer, G.
- II. Richter, H.
- III. Schmelzer, G.
- IV. ATS-66R76G
- V. Associated Technical
Services, Inc.,
Fort Orange, N. I.

(Chemistry--Physical, TT, v. 12, no. 5)

Office of Technical Services

Growth Layers Formed in the Reaction of Solid
Iron With Liquid Aluminum and Aluminum Alloys, by
G. Gurtler, K. Sagel.

GERMAN, per, Zeit Metallkunde, Vol XLVI, No 10,
1955, pp 738-741.

BISI - 16721

Brutcher Tr 346 050
No 3680
\$3.90

Scientific - Min/Metals May 56 CTS/DEX

A High-Frequency Method for Metallurgical
Testing of Magnetic Alloys, by F. Fraunberger. UNCL

GERMAN, per, Z. Metallkunde, Vol XLVI, No 10,
1955, pp 749-751.

British Iron and Steel Ind
(no number given)

Sci - Engr
Sep 59

98,099